



SEQUENCE LISTING

<110> THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE
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BRAKEMAN, Paul R.

<120> SYNAPTIC ACTIVATION PROTEIN COMPOSITIONS AND METHOD

<130> JHU1520-2

<140> US 09/910,706

<141> 2001-07-20

<150> US 09/042,428

<151> 1998-03-13

<150> US 60/036,553

<151> 1997-03-14

<160> 15

<170> PatentIn version 3.0

<210> 1

<211> 558

<212> DNA

<213> Rattus norvegicus

<220>

<221> CDS

<222> (1)...(558)

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atg ggg gaa caa cct atc ttc agc act cga gct cat gtc ttc cag atc 48
Met Gly Glu Gln Pro Ile Phe Ser Thr Arg Ala His Val Phe Gln Ile
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gac cca aac aca aag aag aac tgg gta ccc acc agc aag cat gca gtt 96
Asp Pro Asn Thr Lys Lys Asn Trp Val Pro Thr Ser Lys His Ala Val
20 25 30

act gtg tct tat ttc tat gac agc aca agg aat gtg tat agg ata atc 144
Thr Val Ser Tyr Phe Tyr Asp Ser Thr Arg Asn Val Tyr Arg Ile Ile
35 40 45

agt cta gac ggc tca aag gca ata ata aat agc acc atc act cca aac 192
Ser Leu Asp Gly Ser Lys Ala Ile Ile Asn Ser Thr Ile Thr Pro Asn
50 55 60

atg aca ttt act aaa aca tct caa aag ttt ggc caa tgg gct gat agc 240
Met Thr Phe Thr Lys Thr Ser Gln Lys Phe Gly Gln Trp Ala Asp Ser
65 70 75 80

cgg gca aac act gtt tat gga ctg gga ttc tcc tct gag cat cat ctg 288
Arg Ala Asn Thr Val Tyr Gly Leu Gly Phe Ser Ser Glu His His Leu
85 90 95

tca aaa ttt gca gaa aag ttt cag gaa ttt aaa gaa gct gct cgg ctg 336
Ser Lys Phe Ala Glu Lys Phe Gln Glu Phe Lys Glu Ala Ala Arg Leu
100 105 110

gca aag gag aag tgc cag gag aag atg gaa ctg acc agt acc cct tca 384
 Ala Lys Glu Lys Ser Gln Glu Lys Met Glu Leu Thr Ser Thr Pro Ser
 115 120 125

cag gaa tca gca gga gga gat ctt cag tct cct tta aca cca gaa agt 432
 Gln Glu Ser Ala Gly Gly Asp Leu Gln Ser Pro Leu Thr Pro Glu Ser
 130 135 140

atc aat ggg aca gat gat gag aga aca ccc gat gtg aca cag aac tca 480
 Ile Asn Gly Thr Asp Asp Glu Arg Thr Pro Asp Val Thr Gln Asn Ser
 145 150 155 160

gag cca agg gct gag cca gct cag aat gca ttg cca ttt tca cat agg 528
 Glu Pro Arg Ala Glu Pro Ala Gln Asn Ala Leu Pro Phe Ser His Arg
 165 170 175

tac aca ttc aat tca gca atc atg att aaa 558
 Tyr Thr Phe Asn Ser Ala Ile Met Ile Lys
 180 185

<210> 2
 <211> 186
 <212> PRT
 <213> Rattus norvegicus

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Met Gly Glu Gln Pro Ile Phe Ser Thr Arg Ala His Val Phe Gln Ile
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 Asp Pro Asn Thr Lys Lys Asn Trp Val Pro Thr Ser Lys His Ala Val
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 Thr Val Ser Tyr Phe Tyr Asp Ser Thr Arg Asn Val Tyr Arg Ile Ile
 35 40 45
 Ser Leu Asp Gly Ser Lys Ala Ile Ile Asn Ser Thr Ile Thr Pro Asn
 50 55 60
 Met Thr Phe Thr Lys Thr Ser Gln Lys Phe Gly Gln Trp Ala Asp Ser
 65 70 75 80
 Arg Ala Asn Thr Val Tyr Gly Leu Gly Phe Ser Ser Glu His His Leu
 85 90 95
 Ser Lys Phe Ala Glu Lys Phe Gln Glu Lys Phe Lys Glu Ala Ala Arg Leu
 100 105 110
 Ala Lys Glu Lys Ser Gln Glu Lys Met Glu Leu Thr Ser Thr Pro Ser
 115 120 125
 Gln Glu Ser Ala Gly Gly Asp Leu Gln Ser Pro Leu Thr Pro Glu Ser
 130 135 140
 Ile Asn Gly Thr Asp Asp Glu Arg Thr Pro Asp Val Thr Gln Asn Ser
 145 150 155 160
 Glu Pro Arg Ala Glu Pro Ala Gln Asn Ala Leu Pro Phe Ser His Arg
 165 170 175
 Tyr Thr Phe Asn Ser Ala Ile Met Ile Lys
 180 185

<210> 3
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 3

Met Gly Glu Gln Pro Ile Phe Thr Thr Arg Ala His Val Phe Gln Ile
 1 5 10 15
 Asp Pro Asn Thr Lys Lys Asn Trp Met Pro Ala Ser Lys His Gly His
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 Arg Phe Tyr Phe Tyr Asp Val Thr Arg Asn Ser Tyr Arg Ile Ile Ser
 35 40 45
 Val Asp
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 Thr Lys Thr Ser Gln Lys Phe Gly Gln Trp Ala Asp Ser Arg Ala Asn
 35 40 45
 Thr Val Phe Gly Leu Gly Phe Ser Ser Glu Leu Gln Leu Thr Lys Phe
 50 55 60
 Ala Glu Lys Phe Gln Glu Val Arg Glu Ala Ala Arg Leu Ala Arg Asp
 65 70 75 80
 Lys Ser Gln Glu Lys Thr Glu Thr Ser Ser Asn His Ser Gln Glu Ser
 85 90 95
 Gly Cys Glu Thr Pro Ser Ser Thr Gln Ala Ser Ser Val Asn Gly Thr
 100 105 110
 Asp Asp Glu Lys Ala Ser His Ala Ser Pro Ala Asp Thr His Leu Lys
 115 120 125
 Ser Glu Asn Asp Lys Leu Lys Ile Ala Leu Thr Gln Ser Ala Ala Asn
 130 135 140
 Val Lys Lys Trp Glu Met Glu Leu Gln
 145 150

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 <213> Artificial sequence

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Arg Asp Tyr Lys Gln Ser Ser Ser Thr Leu
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 mGluR5.

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Arg Asp Tyr Thr Gln Ser Ser Ser Ser Leu
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 Ser Ser Thr Leu
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 <223> peptide binding sequence

<400> 11

Ser Ser Ser Leu
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<210> 12
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 <212> PRT
 <213> Rattus norvegicus

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Ala Val Thr Val
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<210> 13
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 <212> PRT
 <213> Homo sapiens / Mouse

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 <223> positions 31-34 of SEQ ID NO:3

<400> 13

Gly His Arg Phe
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<210> 14
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<220>
 <223> PDZ-like domain

<400> 14

Gly Leu Gly Phe
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<210> 15
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<220>
 <223> C-terminal motif

<400> 15

Thr Ser Ser Leu

1